



**VSUN**  
Innovative & Smart

Date: 6th February, 2020

To:  
**Regatta Solutions, Inc.**  
Attn: Mark Gilbreth  
27122 Paseo Espada, Suite 901  
San Juan Capistrano, CA 92675

Dear Mr Mark Gilbreth,

Based on the information provided for tan dirt type and location of the 2.176MW solar project located in Lost Hills CA., we can confirm as below:

For the bifacial modules VSUN390-72BMH-DG, the maximum rear side power gain is advised to be considered as 15% and the Short Circuit Current (Isc) at 15% rear side power can be 10.11A\*1.15=11.63A for the purposes of evaluating inverter specifications. Therefore, the Max. Input Current of the inverter should be more than 11.63A.

CAI DENGRONG (蔡灯荣) 蔡灯荣  
CTO

**Vietnam Sunergy Joint Stock Company**  
Lot III-Dong Vang Area, Dinh Tram Industrial Zone,  
Hoang Ninh Commune, Viet Yen District,  
Bac Giang Province,  
Vietnam

Vietnam Sunergy Joint Stock Company  
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Vietnam

www.vsun-solar.com

3 BIFACIAL MODULE GAIN

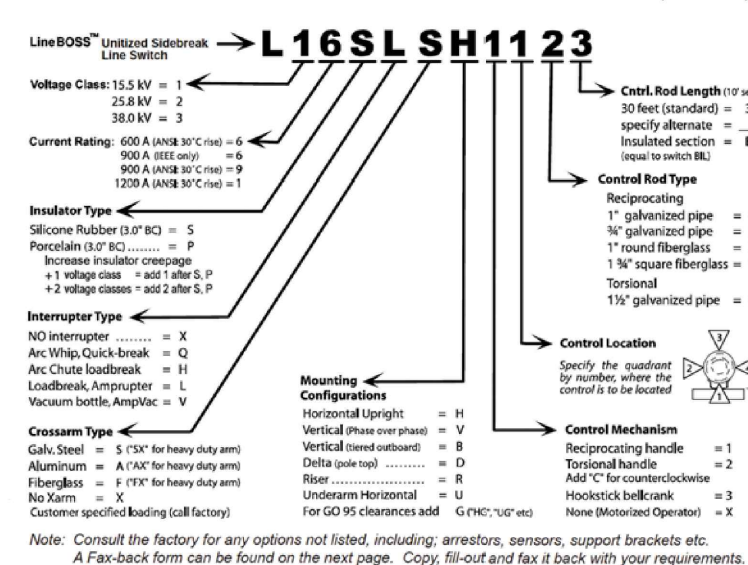
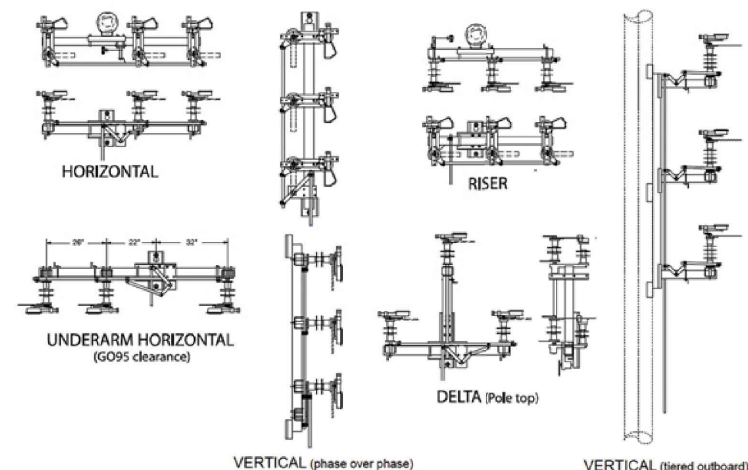


## LineBOSS™

15 KV-35 KV Sidebreak Type,  
Unitized GOAB Switch



### LineBOSS™ Standard Configurations



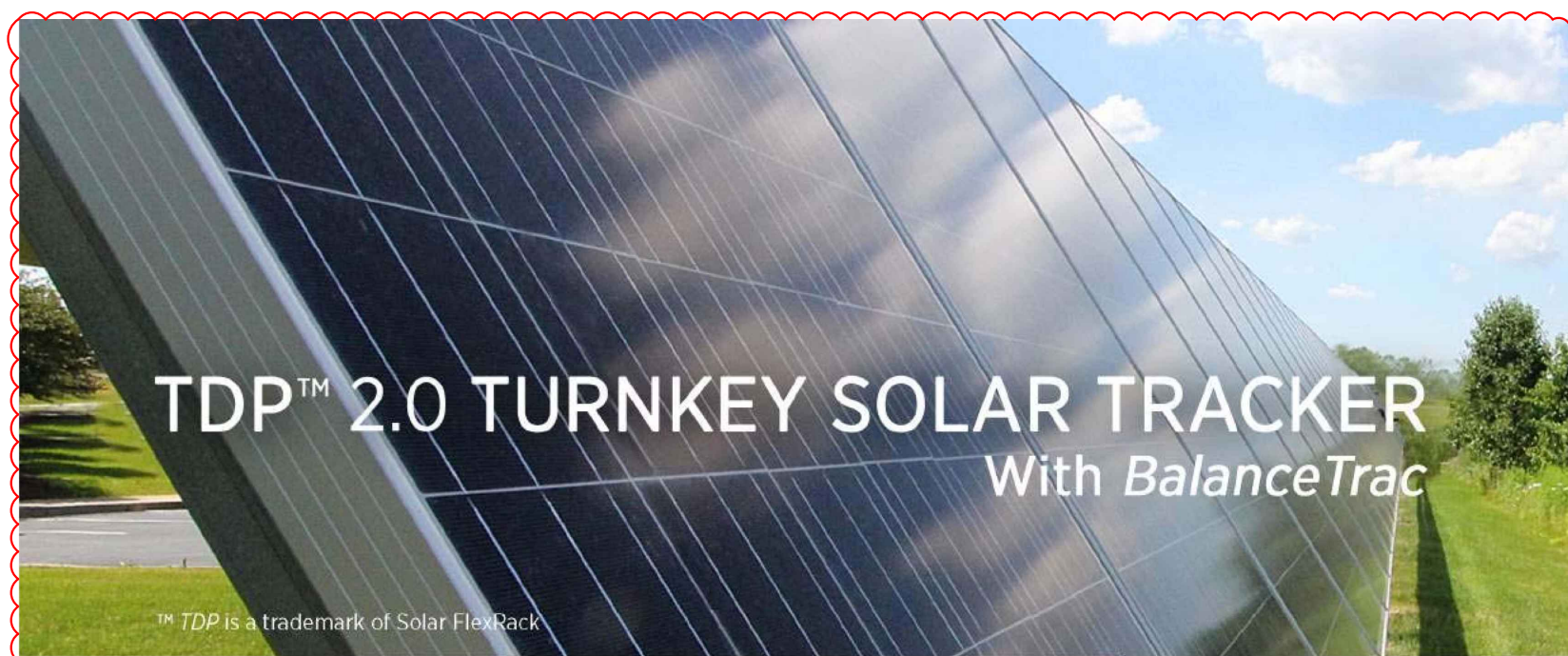
Note: Consult the factory for any options not listed, including: arrester, sensor, support brackets etc.  
A Faceback form can be found on the next page. Copy, fill-out and fax it back with your requirements.

INERTIA Engineering & Machine Works, Inc.  
6665 Hardaway Road • Stockton, CA 95215

Tel: 800-791-9997  
Fax: 209-931-8186

E-Mail: sales@inertiaworks.com

2 VISIBLE/LOCKABLE LOAD BREAK SWITCH



## TDP™ 2.0 TURNKEY SOLAR TRACKER

With *BalanceTrac*

™ TDP is a trademark of Solar FlexRack

Tough, Reliable Tracker &  
Team of Experts at Your Service



Solar FlexRack's new TDP 2.0 Turnkey Solar Tracker with complete project support services for commercial and utility-scale solar installations introduces an advanced design featuring new *BalanceTrac*. This next-generation technology enables solar power plants to increase energy yield while significantly reducing project risks. That translates to smart installation cost-savings across your project budget.

The Only Tracker Solution with:  
- Full Design  
- Installation  
- Commissioning Services

### Increased Energy Yield

TDP 2.0 with new *BalanceTrac* is efficiently designed to support more modules per row, a rotational range of up to 110°, and is compatible with 1,000 and 1500V modules. These key features enable significant energy production gains in solar power plants.

### Greater Adjustability To Maximize Performance

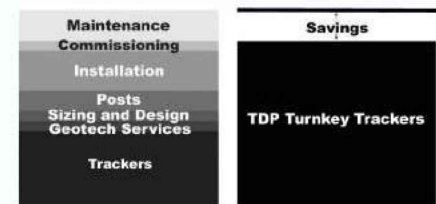
TDP 2.0 Tracker has up to a 10% slope tolerance that can eliminate the need to level land. Independently driven rows provide easy access for mowing, cleaning and maintenance. Autonomous tables increase design flexibility to maximize ground coverage on irregular and non-adjacent lots. Programmable granular backtracking, snow shedding and new wind damper technology mitigate inclement climatic events and reduce risk of tracker damage. All of these features compound to increase system performance.

### Installations Fly with Solar FlexRack

No special equipment or additional steps are required to square your racking. The proprietary design allows modules to easily slide into place, accelerating the process, and reducing installation time.

### Complete Support Services Reduce Project Risks And Costs

A tracker solution that comes with all the critical associated support services and an unmatched team of experts that will significantly reduce your risks and project costs. Project management is simplified, redundancies are eliminated, and you have one highly-experienced supplier-instead of many.



### Increased Yield & Reduced Costs

- More modules per row (up to 90)
- Rotational range of up to 110° (±55°)
- Optimized for 1,000 & 1,500V modules
- Lower per-unit fixed costs for balance of system savings
- Allows shorter piles
- Programmable technology to mitigate inclement climatic conditions
- Installations fly with no prying, adjusting or special tools
- Built to last, the robust design reduces amount of tracker components and wear
- Autonomous tables increase design flexibility to maximize land use
- Smart backtracking reduces row shading to optimize energy production
- Independently driven rows provide easy access for mowing, cleaning and other maintenance

Solar FlexRack, 3207 Innovation Place, Youngstown, OH 44509 | 1.888.380.8138 | info@solarflexrack.com | solarflexrack.com

### TDP™ 2.0 Turnkey Solar Tracker with *BalanceTrac*

#### TESTING

Rain, wind, sleet, snow, heat – every day and everywhere, our products are battling the elements.

We perform ongoing extensive testing in these key areas: wind tunnel, structural load, electrical bonding, and life cycle.

Solar FlexRack trackers also undergo wind tunnel testing performed by RWDI, per American Society of Civil Engineers Standard ASCE 7.

#### UL COMPLIANCE

All Solar FlexRack systems have gone through UL testing.

Each component-connection point within the system conforms to NEC codes for electrically bonded and conductive systems.

Testing is performed by TUV Rheinland in accordance with UL 2703.

Certification covers both United States and Canada.

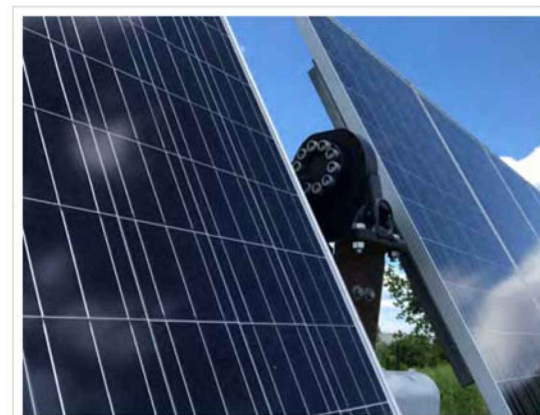
Find out more about Solar FlexRack product reliability and testing at <http://solarflexrack.com/products/testing>



Learn more about our Preferred Installer Program: <http://solarflexrack.com/resources/preferred-installer-program/>

1 TRACKER

TRACKING	
Tracking method	Single-axis horizontal, distributed drive
Backtracking	Smart backtracking - customized to terrain for maximum production
Tracking range	Up to 110° (± 55°)
Ground coverage ratio (GCR)	Configurable (0.33 to 0.50)
Tracking accuracy	2°
Stow Angle	Configurable
ARRAY CONFIGURATION	
Panels per tracker	Up to 90
Trackers per controller	1
String voltage	Up to 1,500 Volts
Panel configurations	1 in portrait (crystalline) 2 in landscape (crystalline) 4 in landscape (thin film)
Drive type	Slew 24 Volts dc



TDP 2.0 TURNKEY SOLAR TRACKER  
With *BalanceTrac*

OPERATIONS & MAINTENANCE	
Scheduled maintenance	None
Warranty	10 Years: Structural and Controllers 5 Years: Drives and Electrical UL 2703
Certifications	UL 2703
Dynamic load management	Limited progressive damping technology
Snow management	Programmable snow shedding

INSTALLATION & TOLERANCES	
North-south slope tolerance	Up to 10%
North-south post spacing	± 1.5 inches
East-west post alignment	± 0.625 inches
Post height	± 1 inch
Post plumb	± 1°
Post twist	± 2°
Tube twist	± 2°

CONSTRUCTION	
Structural materials	Hot dip galvanized steel
Bearings	UV-rated engineering plastic, no lubrication needed
Mechanical connections	Bolted - no welding, drilling or cutting required

CONTROL SYSTEM	
Data feed	Ethernet, Zigbee, SCADA
Power consumption	31 kWh per tracker per year

ENVIRONMENTAL	
Operating temperature	-30 °C to +60 °C
Wind	105 mph (Up to 130 mph)
Snow load	35 mph 10 psf (standard) Higher snow load available upon request

### Over 2.0 Gigawatts of Solar FlexRack Installed

Solar FlexRack, a division of Northern States Metals, is an integrated solar company that offers custom-designed, fixed tilt ground mount and single-axis solar tracking systems in the commercial, community solar and utility-scale solar mounting industries. Solar FlexRack offers full turnkey packages including engineering, geotechnical, pullout testing, field, layout, and installation services to address the actual site conditions of an installation and provide a full scope of services from design to delivery and installation. Solar FlexRack has completed over 2 GW of solar racking installations in 40 states across America and five countries globally.

For more information on Solar FlexRack visit: [www.solarflexrack.com](http://www.solarflexrack.com)



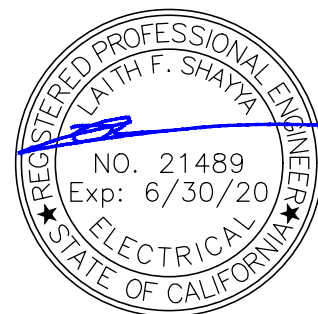
REGATTA DEVELOPMENT, INC.  
27122 PASEO ESPADA, SUITE 901  
SAN JUAN CAPISTRANO, CA 92675

WWW.REGATTASP.COM  
O: 949.481.96705617  
CA LIC: # B-974377

## Line Side Solar

LINE SIDE SOLAR  
2514 JAMACHA RD. #502-182  
EL CAJON, CA 92019

WWW.LINESIDESOLAR.COM  
O: 619.333.6703



## ELECTRICAL DATA SHEETS

(2 OF 2)

CLIENT APPROVAL  
x CLIENT INITIALS

CALIFORNIA  
RESOURCES CORP.  
12888 HOLLOWAY RD.  
LOST HILLS, CA 93249

No.	DESCRIPTION	DATE
0	INITIAL	06/27/18
1	BACKCHECK #1	08/08/18
2	BACKCHECK #2	09/21/18
3	BACKCHECK #3	02/20/20

LINE SIDE SOLAR

CHECKED BY: LS

E-4.1

TO SCALE ON 24X36 PAPER